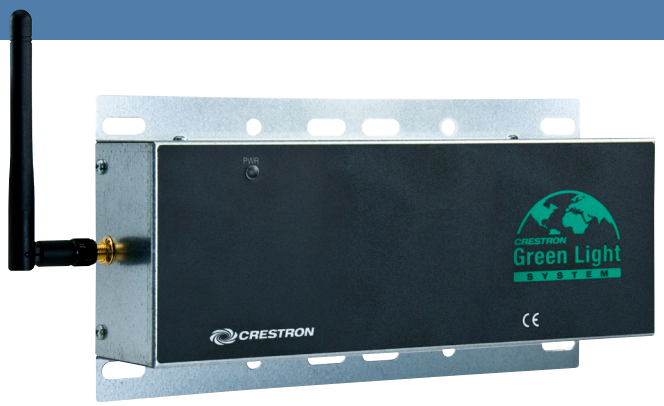
GLPP

Crestron Green Light® Power Pack

Make more rooms greener with the Green Light Power Pack. This low-cost, intelligent lighting pack controls lights based on occupancy and natural light in any room.



- > *Works in 120-277VAC systems*
- > *Ideal for new construction or retrofits*
- > *Wired or wireless link to central Crestron system*
- > *1, 2 and 3 channel models available*
- > *Switched and 0-10V dimming models available*
- > *Integrates with occupancy sensor and photocell*
- > *Optional handheld commissioning remote[1]*
- > *Supports up to two remote keypads*
- > *Easy keypad wiring using existing switch-loop wiring*
- > *Optional handheld remote for daily use*
- > *Real-time energy monitoring on select models*
- > *Adaptive zero-cross switching for extended life*
- > *Seamless integration with Crestron AV systems*

The Crestron Green Light Power Pack is a room controller designed to communicate with photocells, occupancy sensors, and control stations to automatically control lighting in any room. The entire Power Pack family provides cost-effective and powerful lighting control for classrooms, small offices, and open-plan offices. Ideal for new construction as well as retrofitting existing buildings, Power Packs are designed to install and commission quickly and easily. The Green Light Power Pack connects to a central control system, making it an integral part of the building energy management system.

Easy Installation
Designed to mount directly over a pair of adjacent 4” square junction boxes, the Power Pack is easy to prepare for–and install. High- and low-voltage connections are made using the labeled color-coded flying-lead wires.

Energy Efficiency
Inputs for occupancy sensors and photocells[2] drive potential for significant energy savings. Lights will turn off automatically when the room is vacated, and rooms with adequate daylight will dim automatically. During the simple commissioning process, these cost-saving techniques can be made permanent to prevent users from overriding them.

Built-in Power Monitoring
Power monitoring, included on all dimming models[3], tracks the real time energy usage of each load, thereby delivering statistics to help control energy costs. By analyzing real data, organizations can make more educated decisions regarding energy resources, which will have greater impact on the bottom line.

User Interface Options
Control the room’s lighting with a discrete wall keypad or use the IR remote anywhere in the space for convenience and versatility. Recall specific scenes or manually adjust light levels with up to two 4-button Power Pack Keypads or the optional handheld IR remote.

To help promote installation in existing spaces, keypads can be installed in place of standard toggle switches while utilizing existing switch-loop wiring[6]. A flush-mount external IR receiver facilitates smooth operation of the handheld IR remote in any size room.

Adaptive Zero-Cross Switching
Green Light Power Packs are built to last and extend the life of the connected ballasts and lamps. By using a proprietary, closed-loop zero-cross switching scheme, Power Packs ensure that relay contacts close under no load.

Crestron Integrated Building Control System
As with all Crestron products, control goes beyond just a single room. While the Power Pack is a great single room solution, it is designed to be part of a larger Crestron integrated building system, linked via wired or wireless communication to the central control system. With Crestron Fusion EM™ software, building managers have total energy monitoring, management and control capabilities over all Power Packs and other installed Crestron equipment.

Cresnet® Models - Wired Communication
Robust and reliable communications between the Power Pack and a control system is provided over a three-wire Cresnet databus (shielded twisted pair plus ground). The versatile topology of Cresnet means that installers can home-run, daisy-chain, or mix and match as needed. Cresnet connects to the GLPP via flying leads with wire nuts, eliminating any need for crimpers or connectors while providing a more secure and trouble-free termination.

infiNET EX™ Models - Wireless Communication
Crestron infiNET EX wireless technology provides quick, reliable wireless communication between the Power Pack and a central control system. Built on steadfast infiNET™ technology, infiNET EX is the new standard in 2-way wireless connectivity. So robust, infiNET EX can handle installations in even the most urban settings. The redundant nature of its mesh networking technology means that a command will never be missed, resulting in faultless operation—something that is of the utmost importance when it comes to lighting control and building automation.

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SPECIFICATIONS

Load Ratings

Dim/Switched Channels: 1, 2 or 3 switched or dimmed (0-10V) loads (depending on model)
Per Unit: 16 Amps @ 100-277VAC, 50/60Hz (20 Amps, de-rated to 80%)
Dim Load Types (for dimming models): 0-10V fluorescent ballast (4-wire); 0-10V LED Drivers; 60mA max current sink
Switched Load Types: Fluorescent Ballast, Incandescent, Magnetic Low-voltage, Electronic Low-voltage, Neon Cold/Cathode, HID
Relay Lifetime: 1,000,000 cycles

Power Requirements

Power Consumption: Wired Models: 1.5 Watts @ 120-277V, with no sensors or keypad attached; Wireless Models: 2 Watts @ 120-277V, with no sensors or keypad attached
Main Power: 100-277 Volts AC, 50/60Hz
Available Sensor Power: 2.5W @ 24 Volts DC (sufficient for powering both the occupancy sensor and photocell)

Controls & Indicators

POWER: (1) Green LED; indicates line voltage supplied to unit
SETUP: (1) Red LED; indicates unit is in setup mode
SETUP: (1) Recessed push button; toggles setup mode
IR RECEIVER: (1) IR window for use with commissioning remote control

Connections (Class 1)

Line In (100-277 VAC): (1) 14 AWG Class 1 flying lead, black
Neutral: (1) 14 AWG Class 1 flying lead, white
Switched Hot: (1, 2 or 3) 14 AWG Class 1 flying lead(s), red, labeled with channel number
Ground: (1) 14 AWG Class 1 flying lead, green w/yellow stripe

Connections (Class 1) – Dimming Models Only

0-10V dim(+): (1, 2 or 3) 18 AWG Class 1 flying lead(s), violet, labeled with channel number
0-10V dim(-): (1) 18 AWG Class 1 flying lead, gray

Connections (Class 2)

Common: (1) 18 AWG Class 2 flying lead, black; common for sensors, IR and Cresnet
Sensor Power (24VDC): (1) 18 AWG Class 2 flying lead, red
Occupancy Sensor Signal: (1) 18AWG Class 2 flying lead, orange
Photocell Signal: (1) 18 AWG Class 2 flying lead, yellow
IR: (1) 18 AWG Class 2 flying lead, brown, for use with (optional) external IR receiver[4]
Keypads: (2) 18 AWG Class 2 flying leads, white w/black stripe; supports up to two (2) GLPPA-KP Power Pack Keypads

Connections (Class 2) – Cresnet Models Only

Cresnet Data Z: (1) 18 AWG Class 2 flying lead, blue
Cresnet Data Y: (1) 18 AWG Class 2 flying lead, white

Connections (Class 2) – infiNET EX Models Only

Antenna: (1) connection for supplied antenna

Enclosure

20-gauge galvanized steel enclosure; designed for mounting to two (2) adjacent standard 4" square electrical junction boxes[5]; 3-channel versions require a box depth of 2.125 in (5.4 cm)

Environmental

Temperature: 32° to 104°F (0° to 40°C)
Humidity: 10% to 90% RH (non-condensing)

Dimensions

Height: 4.25 in (108 mm)
Width: 8.63 in (219 mm); 9.88 in (251 mm) with antenna at 90° angle (wireless models only)
Depth: 2 in (51 mm)

Weight

2 lb (907 g)

Electrical Regulatory Certifications (Pending)

Certified to UL916 (Energy Management Equipment)
Relays tested and certified for Electronic Ballasts according to UL508, Section 41 (Endurance Test) and Section 61C (Electronic Ballasts), IEC60669-2-1, Section 19.102 (Contact mechanisms incorporated in electronic switches, intended for fluorescent lamp circuits or other capacitive loads)

Notes:
1. Model GLPPA-REMOTE-PROG.
2. Crestron photocell models include GLS-LOL, GLS-LCL and GLS-LEXT. Crestron occupancy sensor models include GLS-ODT and GLS-OIR.
3. Models with suffix "-PM".
4. IR receiver model GLPPA-IRGW-F.
5. Some models may need a box extension to meet code requirements.
6. Two dedicated wires are required from the keypad location to the GLPP.

This product may be purchased from an authorized Crestron dealer. To find a dealer, please contact the Crestron sales representative for your area. A list of sales representatives is available online at www.crestron.com/salesreps or by calling 800-237-2041.
Specifications subject to change without notice. Crestron is not responsible for errors in typography or photography.

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Available Models

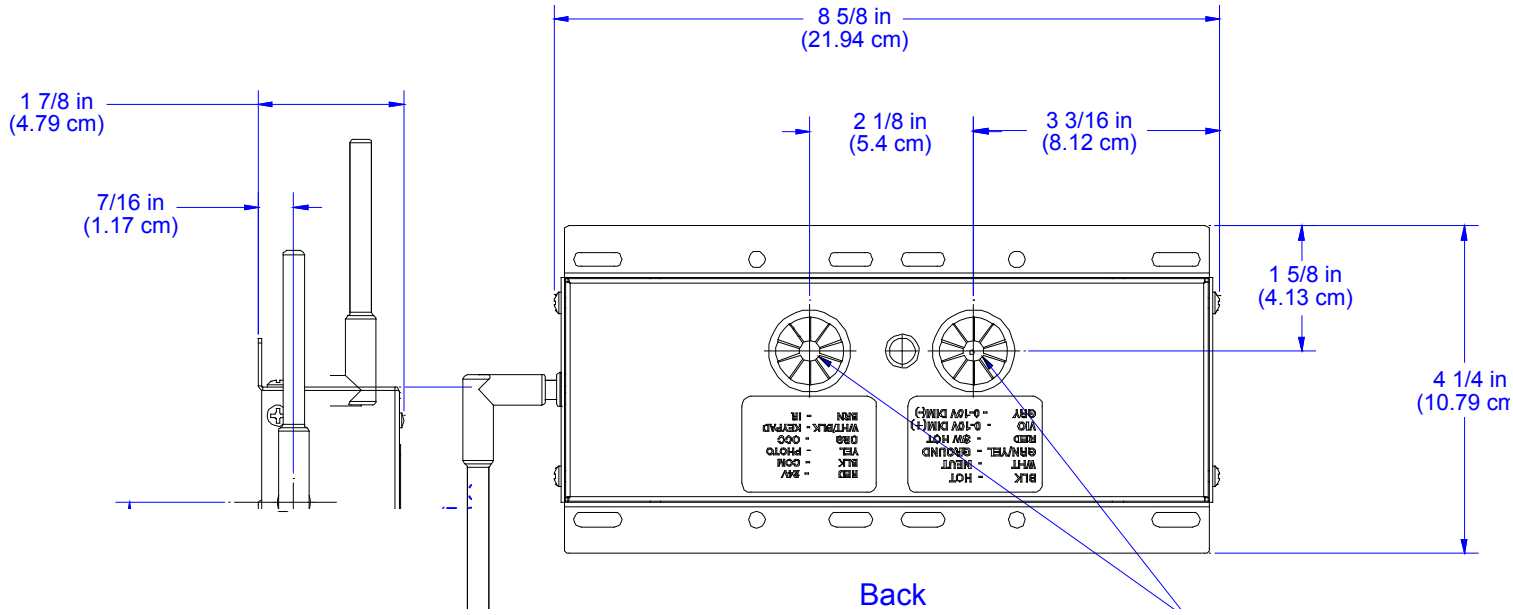
GLPP-SWCN 1-channel switch with Cresnet
GLPP-1SW2CN 2-channel switch with Cresnet
GLPP-1SW3CN 3-channel switch with Cresnet
GLPP-DIMFLVCN-PM 1-channel 0-10V dimmer with Cresnet and built-in Power Management
GLPP-1DIMFLV2CN-PM 2-channel 0-10V dimmer with Cresnet and built-in Power Management
GLPP-1DIMFLV3CN-PM 3-channel 0-10V dimmer with Cresnet and built-in Power Management
GLPP-SWEX 1-channel switch with wireless infiNET EX
GLPP-1SW2EX 2-channel switch with wireless infiNET EX
GLPP-1SW3EX 3-channel switch with wireless infiNET EX
GLPP-DIMFLVEX-PM 1-channel 0-10V dimmer with wireless infiNET EX and built-in Power Management
GLPP-1DIMFLV2EX-PM 2-channel 0-10V dimmer with wireless infiNET EX and built-in Power Management
GLPP-1DIMFLV3EX-PM 3-channel 0-10V dimmer with wireless infiNET EX and built-in Power Management

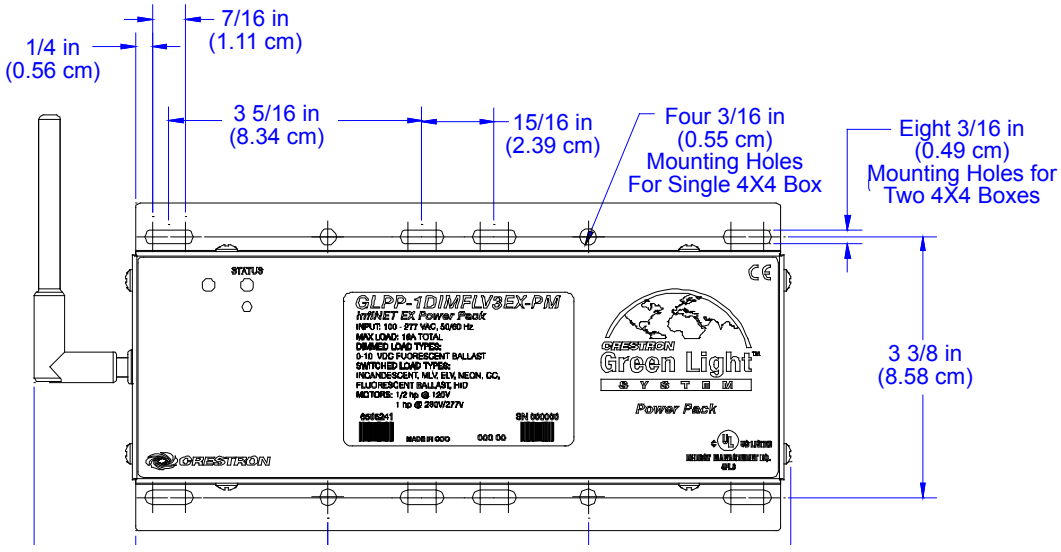
Available Accessories

GLPPA-KP-W-S Power Pack Keypad, gloss white
GLPPA-KP-A-S Power Pack Keypad, gloss almond
GLPPA-KP-B-S Power Pack Keypad, gloss black
GLPPA-IRGW-F Flush-mount IR gateway for GLPP
GLPPA-REMOTE-USER Handheld IR remote for wireless control of lighting levels and scenes
GLPPA-REMOTE-PROG Handheld IR remote for commissioning the GLPP
GLA-EXPEX infiNET EX™ Wireless Expander

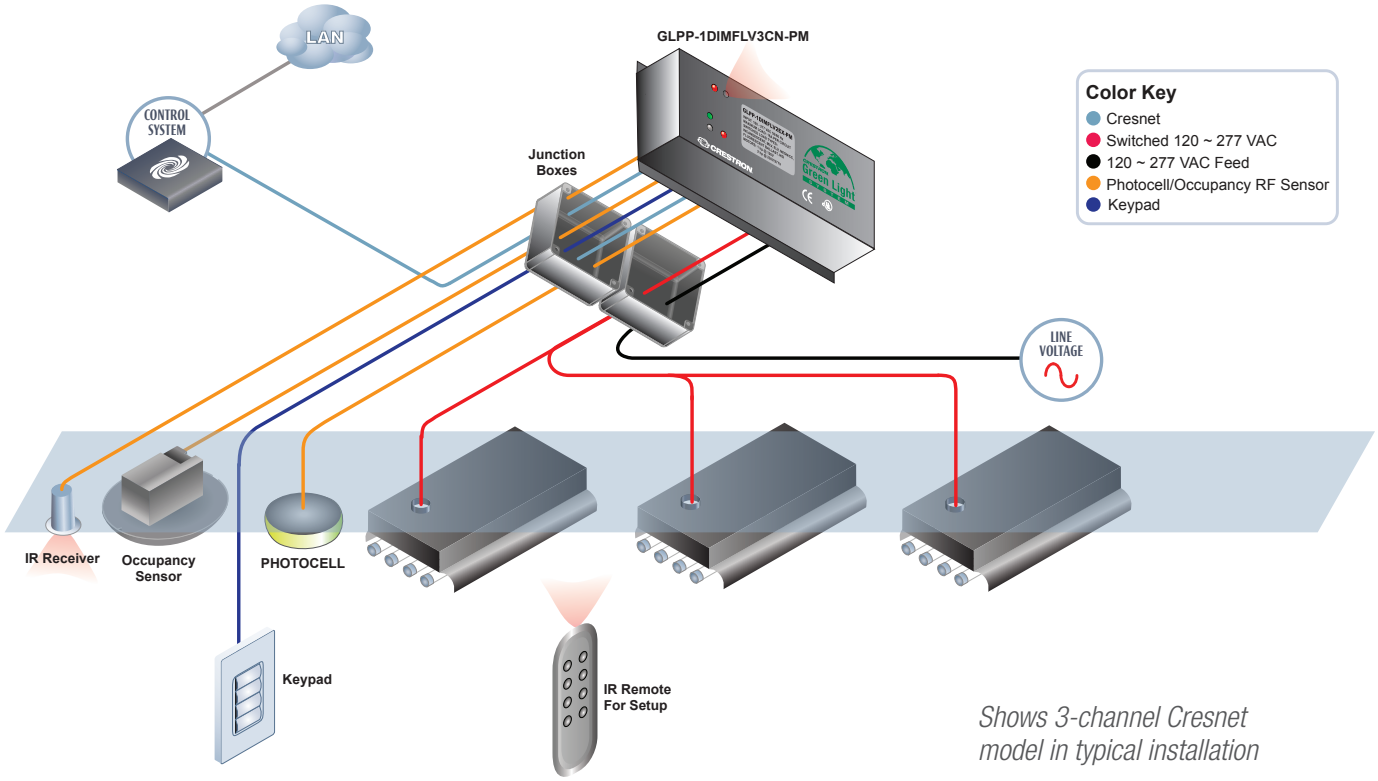
CAD DRAWING

(GLPP-1DIMFLV3EX-PM SHOWN)

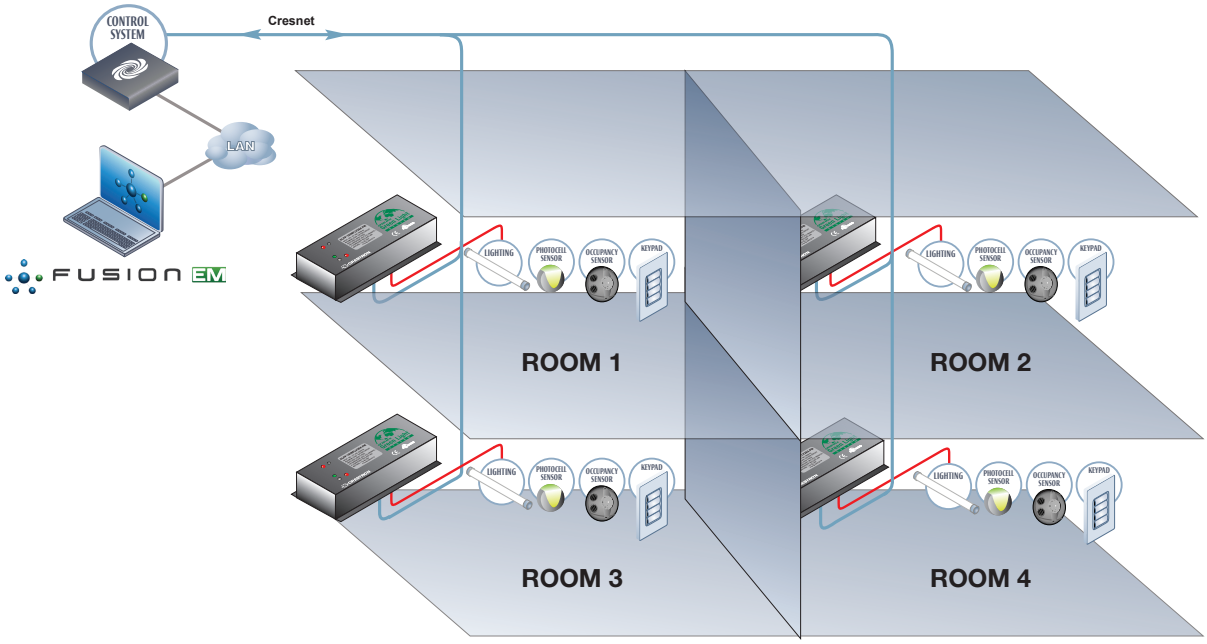




APPLICATION DIAGRAMS



Shows 3-channel Cresnet model in typical installation



Shows typical mult-room application

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